

Eclipse : Reappearance of Jupiter's Second Satellite.

1862, May 20.
8^h 21^m 49^s.80 G.M.T.

Latitude of Tavistock Square Observ^y. 51° 31' 30" N.
Longitude ditto 0^h 0^m 29^s.7 W.

Mr. Talmage sent also the following observation,

Occultation : Disappearance of B.A.C. 4923, June 9.

This is a very fine double star of the 6th and 8th magnitudes. The following are the noted times of disappearance:—

Small star, 8th mag. ^h ^m ^s 10 17 24.50 G.M.T.
Large star, 6th mag. 10 17 52.80 „

At the time of reappearance, a thin cloud hid the small star, but the larger one came out sharp and well defined, instantaneously at
11^h 29^m 7^s.00 G.M.T.

Results of Meridional Observations of Small Planets, and Phenomena of Jupiter's Satellites; observed at the Royal Observatory, Greenwich, during the month of May, 1862.

(Communicated by the Astronomer Royal.)

Hebe (6).

Mean Solar Time of Observation.	R.A. from Observation.	N.P.D. from Observation.
^h ^m ^s	^h ^m ^s	^o ['] ["]
1862, May 12 13 36 58.6	16 59 12.55	90 40 15.52
20 12 59 4.9	16 52 45.10	90 12 48.56
31 12 5 37.0	16 42 30.58	89 53 9.54

Flora (8).

Mean Solar Time of Observation.	R.A. from Observation.	N.P.D. from Observation.
^h ^m ^s	^h ^m ^s	^o ['] ["]
1862, May 5 10 38 38.6	13 32 47.41	89 44 50.77
19 9 33 56.7	13 23 6.65	89 25 36.17
20 29 29.5	13 22 35.25	89 25 37.88

Melpomene (18).

Mean Solar Time of Observation.			R. A. from Observation.			N.P.D. from Observation.			
	h	m	s	h	m	s	°	'	"
1862, May 16	11	15	24.6	14	53	1.57	90	18	6.91
19	11	0	53.2	14	50	17.46	90	8	1.20
20	10	56	3.7	14	49	23.72	90	4	58.46

Massilia (20).

Mean Solar Time of Observation.	R.A. from Observation.	N.P.D. from Observation.
1862, May 12	15 57 27.77	109 53 30.07

Euterpe (27).

Mean Solar Time of Observation.	R.A. from Observation.			N.P.D. from Observation.					
	h	m	s	h	m	s	°	'	"
1862, May 5	10	15	13.9	13	9	18.80	94	51	28.60
20	9	9	4.3	13	2	6.71	94	21	36.86

All the observations of N.P.D. have been corrected for Refraction and Parallax.

No Occultations of Stars by the Moon were observed.

Phenomena of Jupiter's Satellites.

Day of Observation.	Satellite.	Phenomenon.	Mean Solar Time.			Observer.
			h	m	s	
1862, May 2	II	Occ. disapp. first cont.	8	55	2.0	D.
"	II	" bisection	8	56	47.0	D.
"	II	" last cont.	8	58	47.0	D.
"	I	Eclipse, reappearance (a)	10	12	23.3	D.
17	I	Egress, bisection	10	14	48.0	C.

(a), Very hazy; the observation not very satisfactory.

The initials D. and C. are respectively those of Mr. Dunkin and Mr. Criswick.

Description of a New "Aplanatic" Eye-piece for Telescopes.
By T. W. Burr, Esq.

Those astronomers who are also microscopists are probably acquainted with an eye-piece for the microscope known as "Kellner's," or the "Orthoscopic," which offers the advantage